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PHOTOGRAPHIC INTERPRETATION REPORT



BELEV SENSITIVE OPERATIONS COMPLEX
USSR

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OCTOBER 1965
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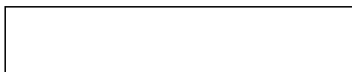


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PHOTOGRAPHIC INTERPRETATION REPORT

BELEV SENSITIVE OPERATIONS COMPLEX USSR



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INTRODUCTION

This report updates information 1/ on the Belev Sensitive Operations Complex which is under construction 26 nautical miles (nm) south-southeast of the town of Belev at 53-32N 36-30E (Figures 1 and 2). This photographic analysis of the complex is based only on photography, and the quality of the photography is excellent. The complex appears on photography from 2 earlier missions, but that photography was not used. Although most facilities throughout the complex have been expanded, the most significant changes have occurred in the Operations Area where 3 bunkers are under construction. The gatehouse at the northwest entrance to the Operations Area has been arbitrarily designated as the reference point (RP) from which all distances and azimuths within the complex have been calculated.

OPERATIONS AREA

The Operations Area is secured with wire fencing. Few, if any, trees have been removed to make way for fences, thus making it impossible to determine all boundaries of the area. The southern fenceline is approximately 13,000 feet long and is clearly visible where it crosses open ground. Approximately 3,300 feet southeast of Bunker 3, 4 rows of fences are discernible. The first and second rows are 240 feet apart; the second and third are 10 feet apart; and the third and fourth are 140 feet apart. The innermost fence is parallel to an unpaved patrol road or trail. A small building, probably a security building, is near the southeast corner of the Operations Area, and a security post or gatehouse is situated near the southwest corner of the area.

Roads in the area are being surfaced. One section of the road that will serve the excavation for a fourth bunker has been completed and paved with concrete slabs measuring 10 feet by 10 feet. The slabs have been placed side by side, making the road 10 feet wide. Another section of this road approximately 2,800 feet long has been leveled and graded but has not been paved.

1 excavation near the southern perimeter fence of the Operations Area was reported as the probable site for a bunker; at present, 3 bunkers are nearing com-



FIGURE 1. LOCATION MAP.

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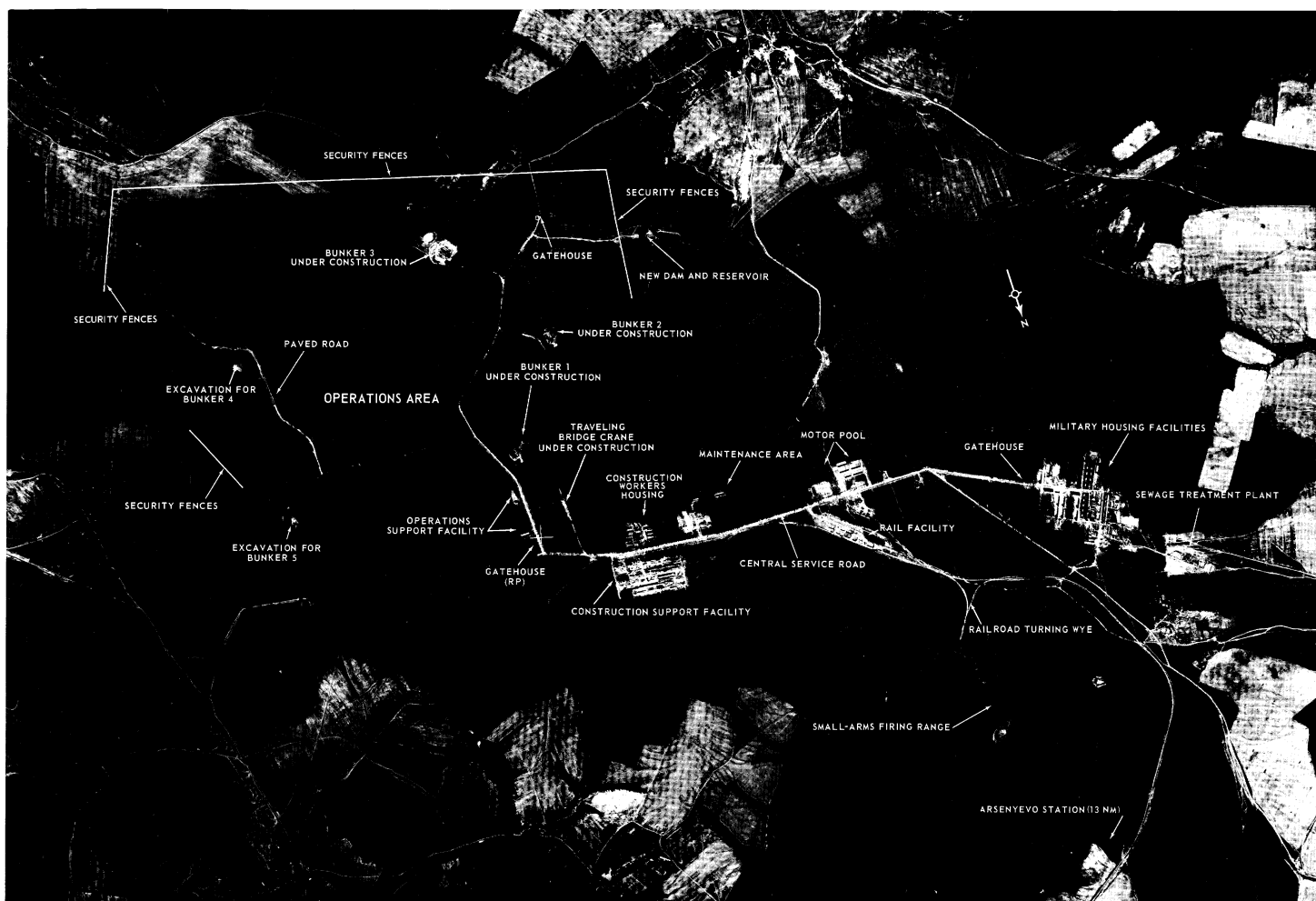


FIGURE 2. BELEV SENSITIVE OPERATIONS COMPLEX

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pletion in the western portion of the area. All three are second-generation rather than third-generation structures* as previously reported (Table 1). Bunkers 1 and 3 are gamma bunkers, and Bunker 2 is a delta bunker. Perspectives and plans of the bunkers under construction are shown in Figures 3, 4, and 5. Of the 4 sensitive operations complexes containing second-generation bunkers, only 1, the Nyandoma complex, contains 1 delta and 2 gamma bunkers. The other 3, Bulyzhino, Rechitsa, and Zhukovka, each contain 2 delta and 1 gamma bunkers.

Excavations for 2 additional bunkers were observed in the Operations Area (Figure 2 and Table 1). The excavation for the fourth bunker is shallow and measures 330 by 150 feet overall. It could accommodate any type of bunker constructed thus far at the sensitive operations complexes but the beta design. The bottom of the excavation has been graded and leveled. No trenches for footings have been dug, and there is no other evidence that construction will be started in the near future. It is possible that further work will be delayed until spring when the ground has thawed. The excavation for the fifth bunker is on an azimuth of 115 degrees and 6,210 feet from the RP. At this time it is impossible to determine what type of bunker will be constructed at this site.

Table 1. Description of Bunkers and Excavations for Bunkers in the in the Operations Area (Numbers appear in Figure 2)

No of Bunker or Excavation for Bunker	Type	Distance from RP (ft)	Azimuth from RP	Distance from Other Bunkers (ft)	Status
1	Gamma	2,555		6,655 from No 5	Under construction
2	Delta		200°		Under construction
3	Gamma				Under construction
4	---		140°	6,915 from No 3	Excavation only
5	---	6,210	115°	No 4	Excavation only

Construction on the Operations Support Facility began after () (Figure 6). The facility, directly south of the RP and just inside the Operations Area, is now virtually complete. It contains a high-bay drive-through building served by a loop road and a long unidentified building. The

*The 8 designs employed in the construction of the bunkers at all the complexes comprise 3 groups or generations; the second generation consists of the gamma, delta, epsilon, and zeta designs. 1/

loop road has not been paved. Utility lines are being installed in open trenches throughout the facility. Whether these lines are water, power, or steamlines cannot be determined from the photography. It is unlikely that steamlines are being installed because no provision for expansion loops is evident. Thus far, all steamlines identified at the sensitive operations complexes are aboveground.

A traveling bridge crane is under construction at the end of a rail spur just inside the Operations Area, 1,100 feet west of the Operations Support Facility (Figure 6). (Only the operations areas at the Belev, Mikhaylovka, and Zhukovka complexes are rail served.) Vertical supports are being erected, and construction materials are scattered on the ground. The horizontal rails and the crane itself have not been installed.

RAIL FACILITY

The Rail Facility approximately 9,000 feet west-northwest of the RP contains a holding yard and a classification or working yard rather than a single holding yard with 5 to 7 sidings as previously reported (Figure 6). The holding yard on the south side of the facility consists of 3 sidings. Eleven unidentified structures, each approximately () square, are situated () (from center to center) next to the southernmost siding in the yard. The classification or working yard on the north side of the Rail Facility consists of 3 sidings which merge into a single spur at the southeast end of the facility. This spur extends south of the Construction Support Facility, across the central service road, and terminates just inside the Operations Area where the traveling bridge crane is under construction. Several piles of concrete piping of all sizes are near the sidings at the northwest end of the Rail Facility. Other material observed in the facility includes 35 short sections of concrete piping () in diameter along the sidings in the classification yard. Rolling stock observed in the facility includes 13 gondola cars filled with earth, gravel, or other material. None of the long () rail cars observed at some of the other complexes have been observed at Belev. (These cars have been seen only at those complexes which are probably operational or partially operational.)

The 4 POL tanks southwest of the Rail Facility and north of the steamplant are earth mounded, and each is 50 feet in diameter (Figure 6). They are served by a single

rail spur and connected by an elaborate pipe gallery. The pipe gallery is used to unload fuel for the steamplant from tank cars into storage tanks. A pumphouse is between the POL tanks and the pipe gallery.

HOUSING AND ADMINISTRATION FACILITIES

Housing facilities for military personnel are in the western portion of the complex, 2.5 nm west of the RP (Figure 7). Although fencing is not visible, a new gatehouse on the central service road west of these facilities indicates that they are secured. A grass plot east of the gatehouse contains a flagpole. The principal change in these facilities is the completion of 4 new barracks identical to the existing 4. Each is 220 by 50 feet and 3 stories high. Although the barracks appear complete on the outside, it is impossible to determine whether they are occupied. A few persons were observed walking on the street near the barracks, an indication that they may be occupied. No messing facilities were identified. Since the 4 existing barracks could house an estimated 1,300 enlisted troops, the new barracks double that estimate. One group of 5 barracks forms a U-shaped pattern. The second group of 3 barracks forms an L-shaped pattern. If the L-shaped pattern becomes U-shaped with the addition of 2 more barracks, the total of 10 barracks could accommodate an estimated total of 3,200 troops. The Bulyzhino, Rechitsa, and Nyandoma complexes each contain 10 identical barracks. Utility poles observed along the streets probably indicate that the streets are illuminated and that electricity and telephone service has been installed.

Construction workers employed in the military housing facilities are housed in temporary dormitory-type buildings on the western edge of the military housing facilities. These structures are surrounded by a wall, and a gatehouse is situated at the entrance.

The probable infirmary or assembly and recreation building southeast of the barracks is enclosed by a wall. The grounds on the east side of the building are landscaped in a symmetrical pattern and contain a 5-pointed star. The building is served by concrete driveways and measures 215 by 50 feet overall. Two wings at the north end of the building are 1 and 2 stories high and have flat roofs. Two administration buildings are under construction northwest

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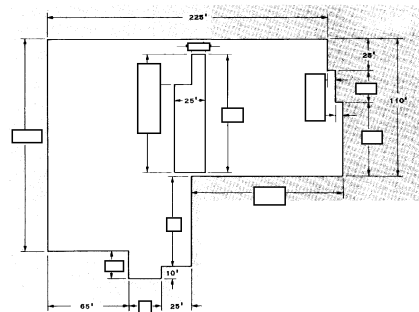


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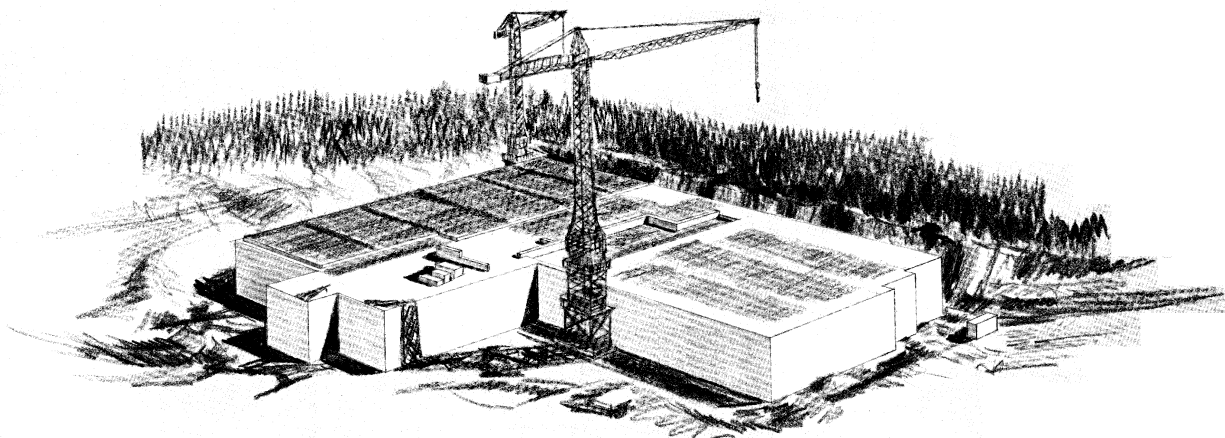


FIGURE 3. BUNKER 1 (GAMMA BUNKER) UNDER CONSTRUCTION

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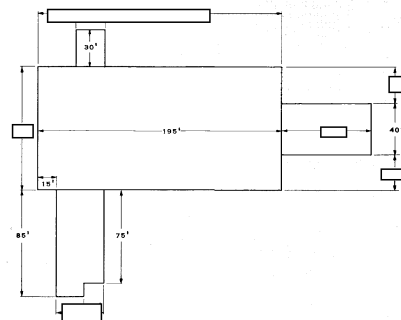
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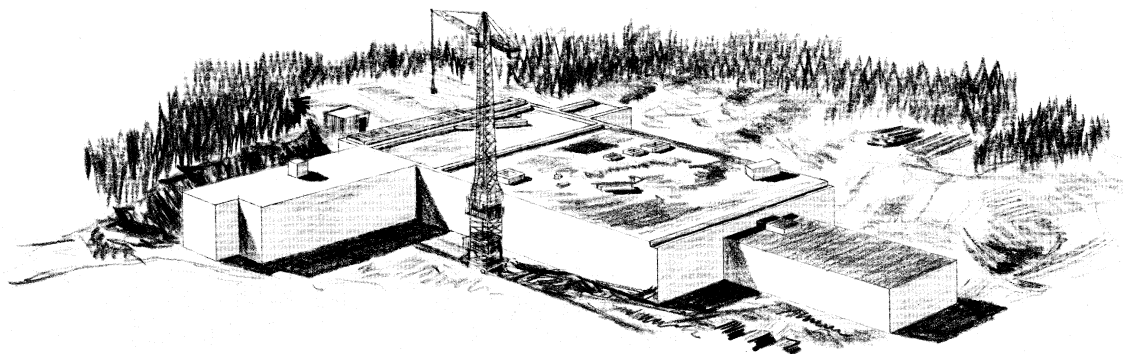


FIGURE 4. BUNKER 2 (DELTA BUNKER) UNDER CONSTRUCTION,

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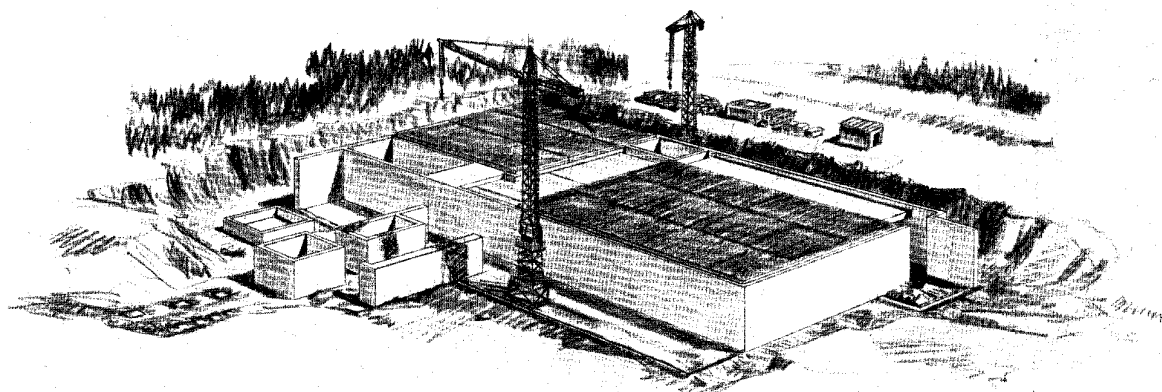
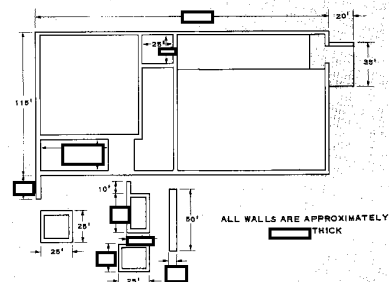
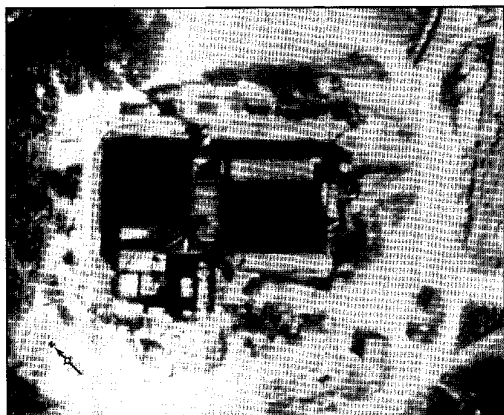


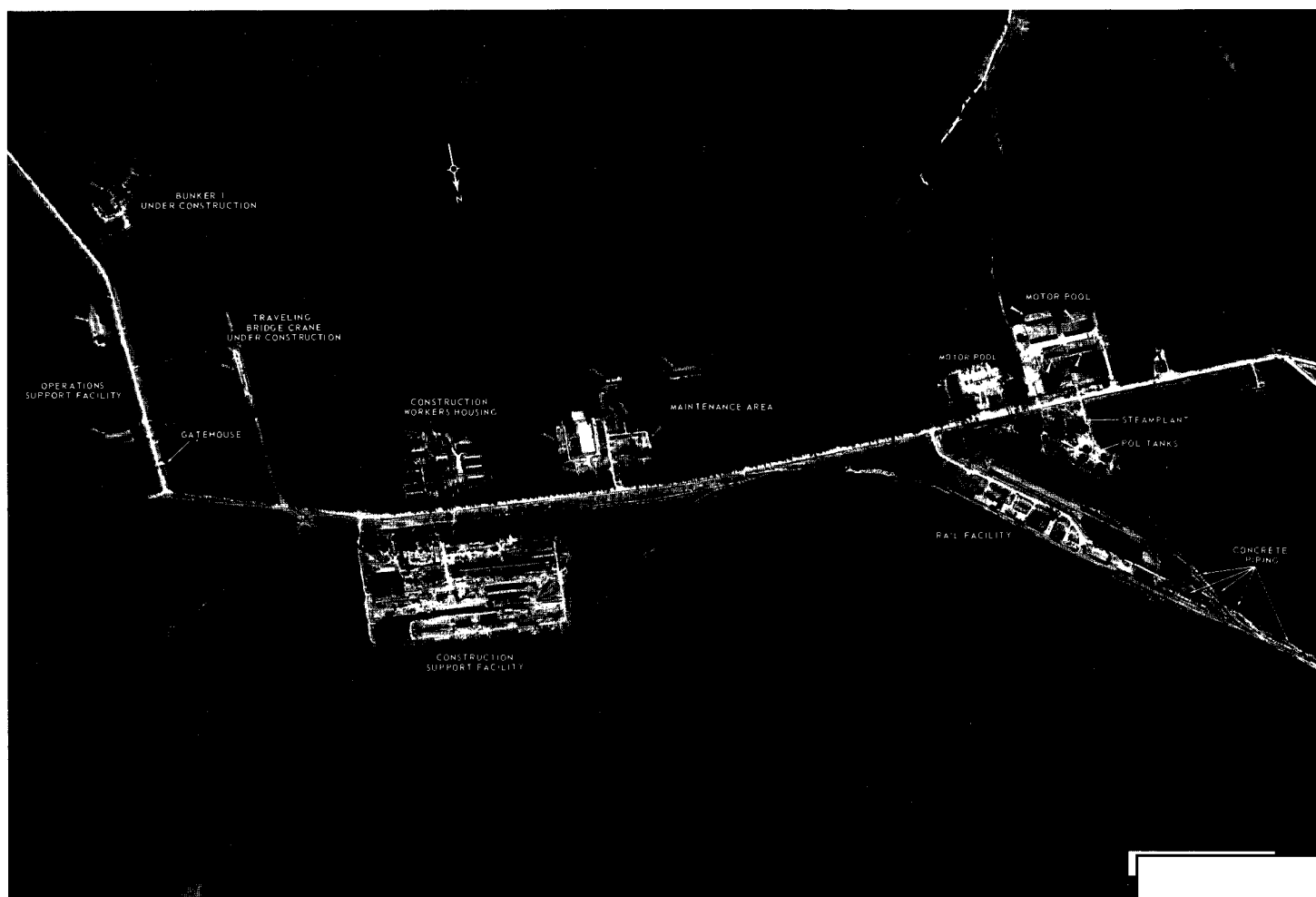
FIGURE 5. BUNKER 3 (GAMMA BUNKER) UNDER CONSTRUCTION

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FIGURE 6. SUPPORT FACILITIES IN THE CENTRAL PORTION OF THE BELEV SENSITIVE OPERATIONS COMPLEX,

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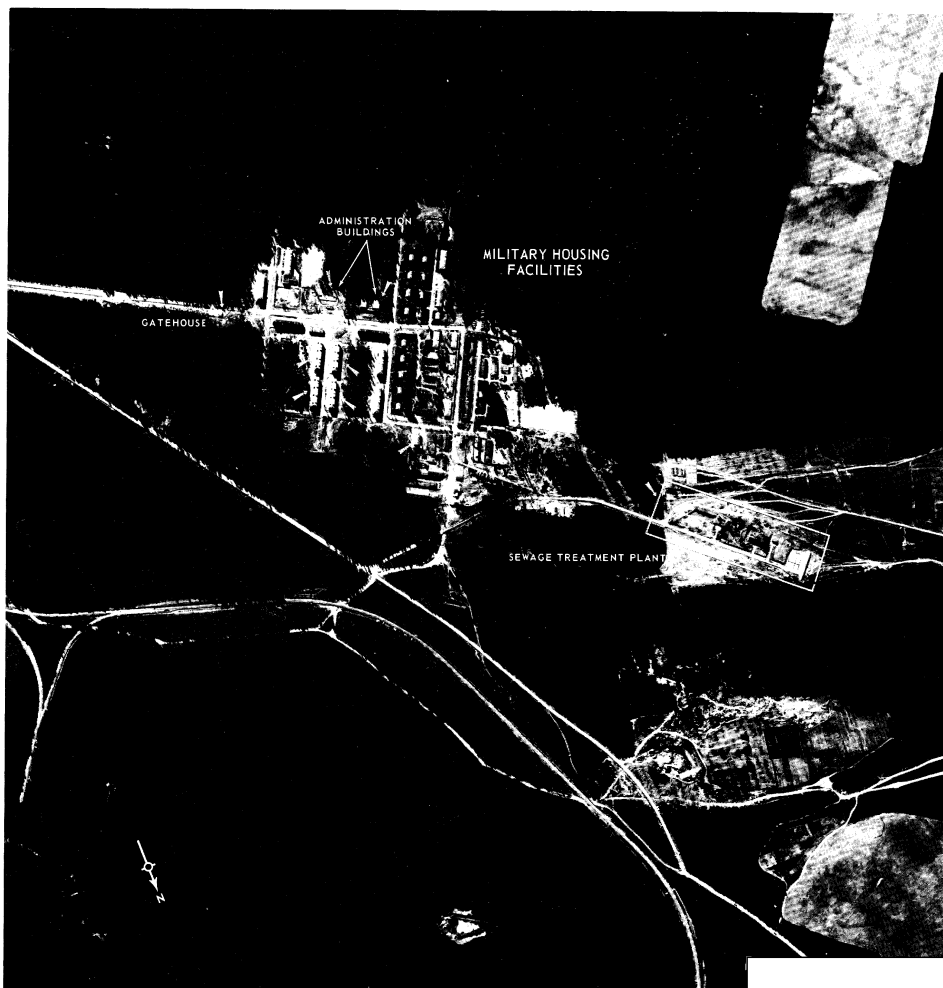


FIGURE 7. MILITARY HOUSING FACILITIES

of the probable infirmary or assembly and recreation building. Both are identical to the administration buildings observed at the Bulyzhino complex.

Housing facilities for construction workers 2,500 feet west of the RP and south of the central service road are enclosed by a solid fence or wall (Figure 6). These facilities consist of nine 1-story, gable-roofed dormitories (probably temporary), a 1-story administration building with a hip roof, a large T-shaped messhall, and 4 warehouse-type buildings. Because of the proximity of these facilities to the Operations Area and the Construction Support Facility, the workers living there are probably engaged in construction activity in the Operations Area.

The small-arms firing range is approximately 5,000 feet northeast of the military housing facilities. Personnel trenches and dug-in firing positions indicate that troops stationed at the complex receive, or will receive, training in combat firing as well as training in marksmanship.

A sewage treatment plant is under construction northwest of the military housing facilities (Figure 7). The plant has provisions for the mechanical digestion, filtration, and chemical treatment of sewage. At 5 of the complexes untreated sewage is retained in large waste basins and receives no additional processing.

OTHER SUPPORT FACILITIES

In [] the Belev Sensitive Operations Complex contained few support facilities. In [] the construction activity immediately west of the construction workers housing was identified as a maintenance area, and a motor pool was nearing completion west of that area (Figure 6).

MOTOR POOL

The motor pool is under construction approximately 8,500 feet west of the RP on the south side of the central service road (Figure 8). When completed, it will perform an operations support function. It contains 6 completed buildings, 4 of which are identical in size and appearance. Buildings 1-4 consist of 4 sections, each of which has a low-pitched gable roof and is 60 feet wide. Each building has a total of 12 entrances, 3 in each section. The number of vehicles each building could accommodate would depend upon the size and type of the vehicle. Four vertical

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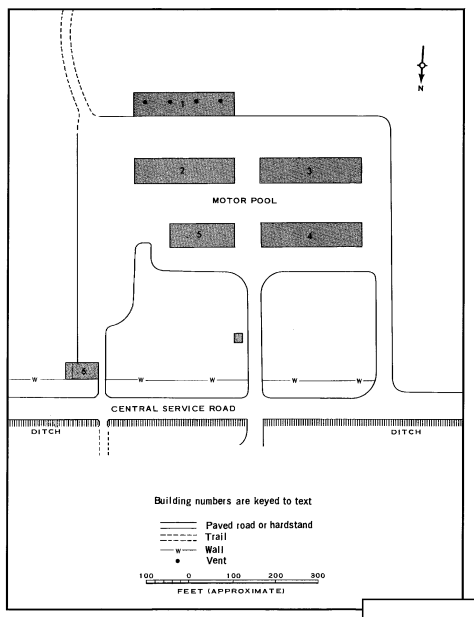


FIGURE 8. LAYOUT OF THE OPERATIONS SUPPORT MOTOR POOL.

Table 2. Comparison of Buildings in the Maintenance Areas of the Belev and Borisoglebsk Sensitive Operations Complexes
(Building numbers for the Belev area appear in Figure 9; those for the Borisoglebsk area appear in Figure 20, NPIC.)

Belev Maintenance Area			Borisoglebsk Maintenance Area	
Bldg No	Dimensions (ft)	Description	Bldg No	Dimensions (ft)
1		Road served; 1 story; open ditch N of bldg could be fuel line; no roof vents	2	
2		Unidentified bldg; 1 story	6	
3		Completed; no sidewalk entrance; pavement on all sides; 3-4 stories high; flat roof; 4 rectangular unidentified objects on roof at each end of bldg; windows on at least 1 side	6	
4		Completed; no sidewalk entrance; pavement on all sides; 3-4 stories high; flat roof; 4 rectangular unidentified objects on roof at each end of bldg; windows on at least 1 side	6	
5		Low-pitched gable roof; 1 story	7	
6		Vestibules [redacted] possibly air locks, on N & S ends; 4 vertical cylindrical vents on roof; earth banked on 2 sides (corresponding bldg at Borisoglebsk not earth banked in [redacted])	5	
7		Roof monitor [redacted] at W end about half as high as bldg; 1 story; grading, probably for hardstand, at E end of bldg	8	
8		Probably an office; 1 story; gable roof; paved road on W side; sidewalk at S end	9	
9		Unidentified objects on roof similar to those on Bldgs 3 and 4; 1 story; drive-in entrance on S side near W end; road at E end	12	
10		Sidewalk on S side; 1 story	10	

cylindrical vents are situated on the roof of Building 1, but none were observed on Buildings 2, 3, and 4. Ventilating equipment will probably be installed in Buildings 2, 3, and 4 sometime in the future. Building 5 has a flat roof, and dark roofing material is being applied to the south side of the roof. Eight open doorways for vehicles are spaced along the south side of the building. Building 6 in the northeast corner of the motor pool is [redacted] feet and is probably a gatehouse.

The buildings in the Belev motor pool are approximately the same size as 2 of the buildings in the motor pool at the [redacted] 2/ Buildings 1-4 at Belev are [redacted] feet; the probable vehicle repair shop at the Korfovskiy motor pool is [redacted] Building 5 at Belev is [redacted] the unidentified building at Korfovskiy is [redacted] In [redacted] 12 probable nosecone vans and 47 other vehicles (mostly vans) of various sizes were identified in the Korfovskiy motor pool; in [redacted] 76 vans with bodies measuring [redacted] feet long overall) were seen there. No vehicles have been observed in the Belev motor pool. It is possible that vehicles similar or identical to those observed at Korfovskiy will also appear at Belev when the complex becomes operational.

A second smaller motor pool just east of the first motor pool provides support only for construction activities (Figure 6). Only a small number of open-bed trucks,

miscellaneous unidentified vehicles, and an administration building are visible in this motor pool.

MAINTENANCE AREA

The Maintenance Area is under construction 4,000 feet west of the RP and the Operations Area (Figures 6 and 9). The maintenance areas at the Borisoglebsk, Bulzhino, Nyandoma, Rechitsa, and Zhukovka complexes are also located in the vicinity of their respective operations areas. 1/ A gatehouse is situated near the entrance to the area. Although no fencing has been installed, the area will probably be secured when construction has been completed. The area contains 10 buildings whose functions are unknown. In size and appearance these buildings resemble 8 of the buildings in the Maintenance Area at the Borisoglebsk complex (Table 2).

Buildings 3 and 4 at Belev are identical to Building 6 in the Borisoglebsk Maintenance Area. Building 6 at Borisoglebsk was previously identified as a laboratory-type structure because of the presence of vents on the

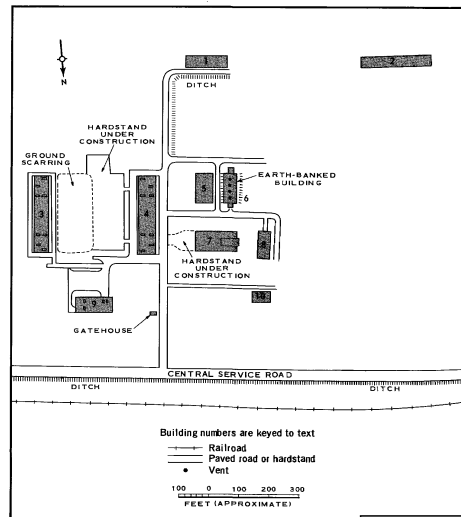


FIGURE 9. LAYOUT OF THE MAINTENANCE AREA.

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roof. 1/ The excellent quality of the Belev photography revealed that each of the unidentified objects on the roofs of Buildings 3 and 4 is 20 feet long and less than [redacted] wide. They probably are not vents. Therefore, these buildings are probably not laboratories. For this reason, the laboratory function assigned to Building 6 at Borisoglebsk can no longer be considered valid. Moreover, it seems

unlikely that 2 identical laboratories would be needed in the Belev Maintenance Area.

Buildings 3 and 4 could possibly be quarters for technical troops. They are capable of housing an estimated 810 troops if they are 3 stories high, or, 1,000 troops if they are 4 stories high; this estimate could be compatible with the caretaker needs of the Operations Area. The

estimated capacity of the military housing facilities elsewhere in the complex far exceeds the number of personnel needed for such purposes. The physical placement of Buildings 5, 6, and 7 is similar to that of Buildings 5, 7, and 8 in the Maintenance Area at Borisoglebsk. 1/

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1. NPIC. [redacted] *Sensitive Operations Complexes, USSR*, Jul 65 (TOP SECRET [redacted])

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REQUIREMENT

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NPIC PROJECT

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